WAC 197-11-960 Environmental **checklist.**

ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

Powder Mill Creek Interim Cleanup Action

2. Name of applicant:

Boeing Commercial Airplanes

3. Address and phone number of applicant and contact person:

Nick Garson, Boeing Shared Services Group **Environmental Remediation** **PO Box 3707 MC 1W-12** **Seattle, WA 98124-2207** **425-269-7866**	**For Technical Project Questions please contact:** **Michael Meyer, URS Corporation** **1501 4th Ave. Suite 1400** **Seattle WA 98101-1616** **206-438-2226**

4. Date checklist prepared:

March 2006

5. Agency requesting checklist:

Washington State Department of Ecology (for a Model Toxics Control Act [MTCA] Interim Action [IA])

6. Proposed timing or schedule (including phasing, if applicable):

August 1, 2006 – September 30, 2006

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

This interim cleanup action may ultimately be considered the full cleanup action, based on an assessment of the residual risk from polychlorinated biphenyl (PCB) concentrations remaining in sediment downstream of the proposed action area. If not, future additional sediment removal may be required in downstream reaches. Creek access would be different if action is required for downstream reaches and taking this interim action would not foreclose future cleanup action in downstream reaches.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The following assessments have been prepared which relate to the proposed IA:

- **URS Corporation. September 2005.** ***Draft Interim Action Workplan, Sediment Removal in Powder Mill Creek, Corrective Action Program, BCA Everett Plant.*** **Seattle, WA.**
- **Daley, Wayne. July 1993.** ***Memo from Wayne Daley, KCM, to Dan Mathias, City of Everett, regarding salmon utilization of streams in the City of Everett based on electrofishing.*** **Seattle, WA.**
- **Dames and Moore. January 1991.** ***Wetlands Study Report for Boeing, Everett.*** **Seattle, WA.**
- **Dames and Moore. August 1992.** ***Boeing Everett Expansion Mitigation Baseline, Monitoring, Contingency, and Site Modification Plans.*** **Seattle, WA.**
- **NOAA Fisheries. June 2005. Endangered Species Act Status of West Coast Salmon and Steelhead, Updated March 14, 2005. www.nwr.noaa.gov/1salmon/salmesa/pubs/1pgr.pdf. Lacey, WA.**

Documentation as needed to support the conformance with substantive compliance with state and local permits as identified in Question 10 and coverage under the Army Corps of Engineers Nationwide Permit No. 38.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known

10. List any government approvals or permits that will be needed for your proposal, if known.

No state or local government approvals are required. The project will comply with the substantive requirements associated with the following permits as required under MTCA.

- **City of Everett: Critical Areas Ordinance and grading ordinance.**

- **Washington Department of Fish and Wildlife (WDF&W): Hydraulic Project Approval (HPA).**
- **Washington Department of Ecology (Ecology): Clean Water Act (CWA) Section 401 Water Quality Certification.**
- **Ecology: Approval of Interim Action Workplan (IAWP) under MTCA requirements and Resource Conservation and Recovery Act (RCRA) Agreed Order between Boeing and Ecology– per this SEPA review.**

The IA has obtained coverage under US Army Corps of Engineers Nationwide Permit No. 38 to address Clean Water Act Section 404 Permit requirements and informal consultation with the US Fish and Wildlife Service (USFWS) and NOAA Fisheries was performed by USACE.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The proposed project is an Interim Action (IA) within Powder Mill Creek (PMC). The IA will be conducted under the oversight of Ecology as part of the RCRA Corrective Action Agreed Order between Boeing and Ecology, and to fulfill the requirements of the Washington State Model Toxics Control Act (MTCA). The objective of the IA is to excavate sediment from the area of relatively higher concentrations of PCBs, thus removing a source of potential ongoing contamination to the downstream areas of the creek. The project consists of excavation of PCB-impacted sediment from approximately 120 linear feet of PMC at its headwaters. The project reach extends from the base of the Boeing stormwater detention basin spillway to approximately 120 ft downstream. The project area is located entirely on Boeing property.

After excavation, habitat-appropriate, clean import material (sand and gravel) and habitat features will be placed in the creek. This IA will not change the uses of the site, and habitat in this reach of stream will be enhanced.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Powder Mill Creek is located to the north of the BCA Everett Plant. The plant is located in the south half of Section 3 and the north half of Section 10 of Township 28N, Range 4E. The North Complex, located just south of Powder Mill Gulch, is located north of Highway 526. The north boundary of Boeing property is at Seaway Boulevard.

Maps are provided in the Engineering Design Report.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other . . . . . .

The site comprises the headwaters area of Powder Mill Creek. The site is a steep-walled creek basin, with occasional terraces.

b. What is the steepest slope on the site (approximate percent slope)?

100%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The upland areas of the Boeing Everett Plant and the upper banks of Powder Mill Creek are underlain by Vashon Till. Powder Mill Creek is incised into the upland and extends into the Esperance Sand aquifer, a regional aquifer that underlies the Boeing Everett Plant. The PMC sediment consists mainly of sand and gravel.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

In the vicinity of the work area, higher slopes of the creek canyon show signs of landslide activity. Project activities will not affect slope or soil stability.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Please see the response to question 3a for excavation and replacement fill within the creek bed. Minimal grading outside of the creek bed is an integral part of the design. In general, such grading will be limited to construction support, such as a laydown areas and a creek access road.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion resulting from clearing, construction or use is unlikely as the project will be largely limited to the streambed. Outside of the streambed only construction support activities will occur (e.g. equipment laydown, access road).

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

No impervious surfaces will be created by the project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

The design purposely minimizes the disturbance of steep stream banks and vegetation within the project reach. BMPs are incorporated to reduce erosion during construction, including silt fencing, straw mulch on exposed erodible soils, a rock access road, and a stabilized construction entrance to the work area.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

During removal and replacement activities, air emissions will be limited to releases from equipment and potential dust from earth moving. Following completion there will be no air emissions from the project.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None known.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Best Management Practices will be used to minimize potential impacts from equipment and to control dust.

3. **Water**

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Powder Mill Creek flows through the site and is the subject of the IA. The site also contains storm water sedimentation and detention basins, along with associated peat filters and created wetlands. Powder Mill Creek flows into Port Gardner Bay.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. Approximately 125 cubic yards of PCB-impacted sediment will be removed and replaced with clean fill and habitat features. A virgin source of the fill is required by the design. Work will be performed during a no- or low-flow period. Dewatering will be conducted during the removal activities as needed. PMC is not a regulated "shoreline." Please see the Engineering Design Report for additional details.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Approximately 125 cubic yards of sediment will be removed, and replaced with an equal amount of clean fill and habitat features such as anchored woody debris. The project area includes the uppermost 120-foot reach of PMC, beginning at the outfall of the Boeing stormwater detention basin.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No. This reach of Power Mill Creek is essentially dry during the summer months.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The proposal does not lie within a 100-year floodplain as designated by the Federal Emergency Management Agency (FEMA). However, because the project is within the bed of Powder Mill Creek, the work will occur within the flood plain of the creek.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

Ground water may continue to recharge the creek bed during construction operations. Such water will be removed, treated, and discharged to the City of Everett POTW.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

- **The work will be conducted during the dry season and therefore no stormwater flow is expected in the subject reach of the creek. Some minimal base flow may be present. If water is present it will be collected, treated, and discharged to the Everett POTW. Contingency plans are incorporated into the design for the potential of unexpected stormwater flowing from the detention basin outlet to the work site**
- **Precipitation falling on construction support areas will be managed using BMPs.**

2) Could waste materials enter ground or surface waters? If so, generally describe.

No. No wastes are anticipated to be generated. PCB-impacted sediments will be removed and managed in accordance with Washington State and federal requirements.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

The following measures will be used to control impacts to surface water and potential runoff:

- **A contingency plan to minimize the erosive effects of water potentially flowing from detention basin outlet**
- **Best management practices will be used to divert and filter potential precipitation at the construction support areas. These BMPs will include silt fencing, straw mulch on exposed erodible soils, a rock access road, and a stabilized construction entrance to the work area..**

4. **Plants**

a. Check or circle types of vegetation found on the site:

_X_ deciduous tree: alder, maple, aspen, other
_X_ evergreen tree: fir, cedar, pine, other
_X_ shrubs
_X_ grass
____pasture
—— crop or grain
—— wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

—— water plants: water lily, eelgrass, milfoil, other

—— other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Vegetation along the bank and within the creek will be removed as part of sediment removal. Some vegetation may be disturbed associated with use of construction equipment and dewatering activities.

c. List threatened or endangered species known to be on or near the site.

There are two eagle nests located near the mouth of Japanese Creek (about a mile from the project site) and one eagle nest located near the mouth of Merrill and Ring Creeks. All of the nests are located within a residential area and a short distance of Mukilteo Blvd. and the birds are acclimated to human presence. In addition, the nests are out of the line of sight of the project and far enough away that construction related noise will not impact them. Eagles are the only T&E species in close proximity of the site. The majority of their foraging would occur on the Sound, but there is a slight chance of foraging on waterfowl at the constructed wetland.

The project reach of the creek was electrofished to verify the absence of T&E fish species. No fish were found in the project reach. Existing culverts probably prevent fish passage. USACE determined that "this project will not affect any species listed as threatened or endangered under the ESA (or a species proposed for such designation) or destroy or adversely modify the critical habitat of such a species."

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Disturbed areas of PMC will be revegetated as part of habitat restoration activities. Construction BMPs will be used including minimizing disturbed areas, weed control and site restoration.

5. **Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other:

See the Engineering Design Report for a complete discussion.

b. List any threatened or endangered species known to be on or near the site.

None known based upon a site reconnaissance, WDFW priority species maps, and a USACE review.

c. Is the site part of a migration route? If so, explain.

No.

d. Proposed measures to preserve or enhance wildlife, if any:

The project will result in improved habitat for wildlife, through removal of a continuing source of low-level PCB contamination. There will some incidental benefit through the creation of enhanced habitat during construction.

6. **Energy and natural resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Once completed there will be no ongoing energy needs.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

N/A

7. **Environmental health**

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

Removed sediment and construction dewatering water will contain low concentrations of PCBs and may contain trichloroethene.

1) Describe special emergency services that might be required.

No special services.

2) Proposed measures to reduce or control environmental health hazards, if any:

A Health and Safety Plan will be prepared and workers will use standard best management practices to avoid contact with these contaminants.

b. **Noise**

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Noise will be limited to daylight hours during the period of construction. Expected equipment will be a tracked excavator, loader backhoe, a skip loader, and trucks.

3) Proposed measures to reduce or control noise impacts, if any:

Construction will be limited to daylight hours, and noise will be mitigated by the steep and highly vegetated canyon walls.

8. **Land and shoreline use**

a. What is the current use of the site and adjacent properties?

The site is currently part of the BCA facility's stormwater detention facilities. Adjacent properties are the BCA Everett Plant North Complex, (to the south and west), unoccupied Boeing properties (to the east and northwest) and unoccupied property owned by the City of Everett (to the north). The nearest residential and commercial land uses are approximately 2000 feet to the east.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

Stormwater sedimentation and detention basins, both asphalt-lined, with associated spillways. Two peat filters and associated created wetlands.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

M-1, Office and Industrial Park

f. What is the current comprehensive plan designation of the site?

2.0 Parks – Public Open Space

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable. The area is not a shoreline of the state.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The project has been reviewed by City of Everett.

9. **Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. **Aesthetics**

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

No proposed structures.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

N/A

11. **Light and glare**

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

N/A

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?

None. The site is private property and access is controlled by fences and gates.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

N/A

13. **Historic and cultural preservation**

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

No.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None.

c. Proposed measures to reduce or control impacts, if any:

Construction plans include BMPs for avoiding impacts to historic, archaeological or cultural artifacts.

14. **Transportation**

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The site is served by private access roads owned by BCA.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No. N/A

c. How many parking spaces would the completed project have? How many would the project eliminate?

None.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No. Existing access roads will not need to be improved to carry out the project.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

Construction equipment will be moved to the site through the North Complex using Boeing private roads.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

None.

g. Proposed measures to reduce or control transportation impacts, if any:

N/A

15. **Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

N/A

16. **Utilities**

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: .....

Date Submitted: 14MAR06